

CONSTRUCTION VALUE ENGINEERING CHANGE PROPOSAL
MISSOURI DEPARTMENT OF TRANSPORTATION

Contract ID 071130-805 Job No. J8S0851
County Greene Route 266 Original Bid Cost \$11,889,618.21
Contractor APAC-Missouri, Inc. By Doug Fronick
Designed By APAC-Missouri, Inc. Phone 417-868-6700
VE # 08-17

1. Description of existing requirements and proposed change(s). Advantages/Disadvantages

Proposed Ramp 4 Closure.

This proposal is to close existing ramp 4 (west bound Rt. 44 on ramp) during stage 1 construction. The current plans call for leaving ramp 4 open by constructing temporary connections #1 and #2 so the ramp can tied under traffic. With this proposal traffic wanting to go west on Rt. 44 will do so on existing ramp 3. Traffic control plans are already designed for handling west bound traffic on ramp 3 during the I-44 closures. Ramp 4 closure would be permanent during stage 1 until ramp 4 is reconstructed. Advantages to this closure are that stage work and tie-in work can be minimized by diverting traffic away from the work area, employees and equipment are not working as close to traffic as the original plans show, and MODOT will receive a better finished pavement since it will minimize the numbers of headers to construct this section of roadway.

Proposed Temporary Striping Change.

The original plans call for the use of preformed removable marking tape only for the temporary markings. This proposal changes the type of temporary markings to paint and tape. The tape would be used on finished surfaces and areas that the existing pavement would stay in place. The paint would be used on new asphalt pavement that the SP125 surface still has to be laid and on pavement that has to be removed. The paint will also be used on stage 1 of the bridge since the half of the bridge that traffic will be handled on will be removed in stage 2. The temporary striping plans will also be modified to include striping the relocated Rt. 266 with four lanes and a center turn lane. This is similar to how the Rt. 160/West Bypass project was temporary stripe prior to the surface being placed. Striping the roadway with four lanes and a turn lane would allow for better traffic control for median installation once the new roadway is opened. The center turn lane would be laid out the same as the final turn lanes to Golf Rd. and Haseltine Rd. The intent of JSP HH was to not make "ghost lines" on the final pavement surface. Using temporary striping with both paint and tape will give MODOT the same end result at a lower cost to taxpayers and not scar the pavement.

The estimated net savings is \$58,615.43. See attached sheet showing detailed breakdowns of contract items.

2. Estimate of reduction in construction costs.

3. Prediction of any effects the proposed change(s) will have on other department costs, such as maintenance and operations.

APAC-Missouri, Inc. foresees no additional costs for MODOT.

4. Anticipated date for submittal of detailed change(s) of items required by Section 104.6 of the Specifications.

Detailed breakdowns are attached
(date)

5. Deadline for issuing a change order to obtain maximum cost reduction, noting the effect of contract completion time or delivery schedule.

March 11, 2008
(date)

No change to completion date or schedule.
(effect)

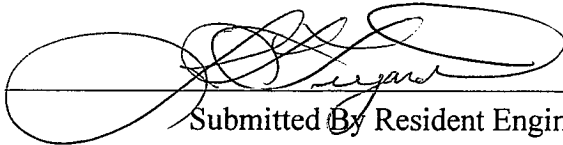
6. Dates of any previous or concurrent submission of the same proposal.

1/24/08
(date and/or dates)

Additional Comments:

**** Portion Below This Line To Be Filled Out by MoDOT ****

Comments: I concur with this proposal. It is a revised VE from the original submitted and accounts for cost savings by utilizing paint for temporary striping in locations where it will not cause issues or conflicts with future markings. And the closure of Ramp 4 on-ramp to I-44 (WB) and installing a temporary connection to EB to WB I-44 Ramp. Final savings will be determined utilizing field measurements.



Submitted By Resident Engineer

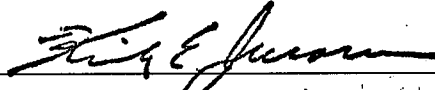
13 MAR 07

Date

Comments:

Value Engineering Proposal. dot

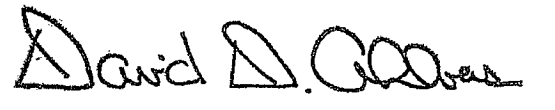
☒ Approval
Recommended
☐ Rejection
Recommended


District Engineer

3/24/2008
Date

Comments:

☒ Approval
☐ Rejection


State Construction and Materials Engineer

4-7-08
Date

Distribution: Resident Engineer, Project Manager, District Operations Engineer, State Construction and Materials Engineer
*Value Engineering Administrator - *MoDOT, P.O. Box 270, Jefferson City, MO 65102

APAC-Missouri, Inc.
Rt. 266 Greene County
J8S0851

Current Contract

Item	Description	Quantity	Unit	Unit Price	Total Price
1270	Bituminous Pavement Mixture PG64-22 (Base)	182	TN	\$48.90	\$8,919.36
1600	Pavement Edge Treatment	258	LF	\$4.81	\$1,239.06
1650	Preformed Removable Marking Tape 4" White	37,954	LF	\$0.93	\$35,297.22
1660	Preformed Removable Marking Tape 4" Yellow	39,444	LF	\$0.93	\$36,682.92
1665	Preformed Removable Marking Tape, 24" White	166	LF	\$5.15	\$854.90
1670	Preformed Short Term Marking Tape Left/Right Arrow	1	EA	\$206.00	\$206.00
1720	Paint Removal	39,031	LF	\$0.26	\$10,148.06
1730	Tape Removal	23,163	LF	\$0.21	\$4,864.23

TOTAL

\$98,211.75

V.E. Proposal

Item	Description	Quantity	Unit	Unit Price	Total Price
1650	Preformed Removable Marking Tape 4" White	7,805	LF	\$0.93	\$7,258.65
1660	Preformed Removable Marking Tape 4" Yellow	7,256	LF	\$0.93	\$6,748.08
1680	4" White High Build Acrylic Waterborne Pavement Marking Paint	28,999	LF	\$0.10	\$2,899.90
1690	4" Yellow High Build Acrylic Waterborne Pavement Marking Paint	35,163	LF	\$0.10	\$3,516.30
XXX1	24" White High Build Acrylic Waterborne Pavement Marking Paint	166	LF	\$2.50	\$415.00
XXX2	Left/Right Arrow-Waterborne Paint	7	EA	\$55.00	\$385.00
1720	Paint Removal	21,677	LF	\$0.26	\$5,636.02
1730	Tape Removal	10,397	LF	\$0.21	\$2,183.37
1740	Temporary Raised Pavement Marker, Type 2	708	EA	\$2.50	\$1,770.00
XXX3	Temporary Raised Pavement Marker, Type 1	192	EA	\$2.00	\$384.00
XXX5	Mobilization for Temporary Striping	8	EA	\$1,050.00	\$8,400.00

TOTAL

\$39,596.32

TOTAL SAVINGS

\$58,615.43

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J8S0851

UNDERRUN PAVEMENT EDGE TREATMENT							
STAGE	FROM STATION	TO STATION	ROADWAY	LOCATION	PAVEMENT EDGE TREATMENT LF		REMARKS
			EXIST. RAMP 4	RT.	100.3	LF	
			EXIST. RAMP 4	RT.	157.3	LF	
			TOTAL UNDERRUN		257.6	LF	

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J8S0851

UNDERRUN TEMPORARY PAVEMENT					
STAGE	FROM STATION	TO STATION	LOCATION	BITUMINOUS PAVEMENT PG 64-22 TONS	
I	0+00	3+99	TEMP. CONN. # 2	182.4	
			TOTAL UNDERRUN	182.4	
				TN	

Rt. 266 Greene
J8S0851

Temporary Markings Summary					
4" YELLOW TAPE	4" WHITE TAPE	4" YELLOW PAINT	4" WHITE PAINT	PAINT REMOVAL	TAPE REMOVAL
7256	7805	35163	28999	21677	10397

24" White Paint	Left/Right Arrow Paint
166	7

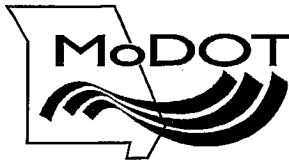
Type 1 TRPM	Type 2 TRPM
192	708

J8S0851

[illegible]

Rt. 266 Greene
J8S0851

TEMPORARY STRIPING PRIOR TO SURFACE ON SP250					
LOCATION	FROM STATION	TO STATION	YELLOW PAINT	WHITE PAINT	TYPE OF LINE
HASELTINE	31+72	35+60	776	776	DOUBLE WHITE / YELLOW
HASELTINE	30+72	11+42	3860	3860	DOUBLE WHITE / YELLOW
ROUTE 266 RELOC.	664+14	655+00	1828	1828	DOUBLE WHITE / YELLOW
ROUTE 266 RELOC.	655+00	644+97		2006	OUTSIDE WHITE
ROUTE 266 RELOC.	655+00	644+97		100	DASHED WHITE
ROUTE 266 RELOC.	655+00	644+97	2000		DOUBLE YELLOW
ROUTE 266 RELOC.	655+00	647+47	1506		DOUBLE YELLOW
ROUTE 266 RELOC.	644+97	646+47		150	SINGLE WHITE TURN LANE
ROUTE 266 RELOC.	643+50	630+75		2250	DOUBLE WHITE
ROUTE 266 RELOC.	643+50	630+75		255	DASHED WHITE
ROUTE 266 RELOC.	643+50	633+25	2050		DOUBLE YELLOW
ROUTE 266 RELOC.	641+00	630+75	2050		DOUBLE YELLOW
ROUTE 266 RELOC.	643+50	642+00		150	SINGLE WHITE TURN LANE
ROUTE 266 RELOC.	632+25	630+75		150	SINGLE WHITE TURN LANE
ROUTE 266 RELOC.	628+94	614+21		2946	DOUBLE WHITE
ROUTE 266 RELOC.	628+94	614+21		295	DASHED WHITE
ROUTE 266 RELOC.	628+94	614+21	2946		DOUBLE YELLOW
ROUTE 266 RELOC.	626+44	614+21	2446		DOUBLE YELLOW
ROUTE 266 RELOC.	628+94	627+44		150	SINGLE WHITE TURN LANE
ROUTE 266 RELOC.	614+21	612+18	406		DOUBLE YELLOW
ROUTE 266 RELOC.	614+21	609+68	906		DOUBLE YELLOW
ROUTE 266 RELOC.	614+21	609+68		906	DOUBLE WHITE
ROUTE 266 RELOC.	609+68	611+18		150	SINGLE WHITE TURN LANE
ROUTE 266 RELOC.	608+70	600+17		1706	DOUBLE WHITE
ROUTE 266 RELOC.	606+20	600+17	1206		DOUBLE YELLOW
ROUTE 266 RELOC.	606+20	608+70	250		SINGLE WHITE
ROUTE 266 RELOC.	607+20	608+70		150	SINGLE WHITE TURN LANE
TOTAL OF 7 ARROWS					
		TOTALS	22230	17828	



MEMORANDUM

Missouri Department of Transportation
Construction and Materials
District 8

Dennis Bryant

TO: Dave Ahlvers
State Operations Engineer

FROM: Jimmy McDiarmid *Jm*
Operations Engineer - Construction

DATE: March 24, 2008

SUBJECT: Value Engineering Proposals
Job No. J8S0851
Route 266, Laclede County
Greene

RECEIVED
MAR 27 2008
Construction & Materials - ECR

Attached for your review and approval are Value Engineering Proposals from APAC-Missouri, Inc. on the above referenced project. The proposals have been thoroughly reviewed and recommendation is made for approval.

Should you have any questions or concerns, please don't hesitate to contact my office.

mj
Attachment

RECEIVED
MAR 28 2008
Construction & Materials - ECR




MEMORANDUM

Missouri Department of Transportation

District 8
Springfield Construction

TO: Kirk Juranas
District Engineer

CC:

FROM: Johnny Teegardin 
Resident Engineer

DATE: March 13, 2008

SUBJECT: VE Proposal
Job No.: J8S0851
Route: 266
County: Greene

Please find enclosed for your review, comments, and recommendation/rejection for the revised VE proposal to close down Ramp 4 during phased construction and temporary striping changes from tape to paint with an estimated cost savings of \$58,615.43 as follows:

1. Change temporary marking tape to paint west of the I-44 bridge. Due to project bid for bituminous construction, the top lift of asphalt could be held to the last phase of the project, thus no markings would have to be removed and would not cause ghost markings to remain on the project. This reduces both the cost of marking and removals.
2. Closure of Ramp 4 (WB Rte 266 to WB I-44) can be accomplished provided the contractor constructs the temporary pavement shown in the turn radius on Ramp 3 (EB Rte 266 to WB I-44) (see Sheet 30 to allow traffic to make the turn from WB 266 to I-44. This will result in the elimination of temporary connection 1 and 2 and still allow access to I-44 from WB Rte 266 and eliminating a need for a detour beyond the project limits. Additional signing would be required redirecting the traffic onto this ramp and would be considered to determine the overall cost savings for this ramp.

Copy: File

jt



Springfield Branch Office

P.O. Box 1187
Springfield, Missouri 65801
(417) 868-6700 • Fax (417) 868-6785

APAC – Missouri, Inc. • Missouri Division • P.O. Box 1117 • Columbia, Missouri 65205 • (573) 449-0886 • Fax (573) 449-7966

February 27, 2007

MoDOT Dist. #8
Attn: Johnny Teegardin, R.E.
2549 N. Mayfair
Springfield, MO 65803

FEB 29 2008

Re: JOB NO: J8S0795 & J8S0851
Airport Blvd. & Rt. 266, Greene County

Dear Johnny,

Attached are four copies of APAC's Value Engineering Proposal for the temporary striping change and the ramp 4 closure. The proposal is being submitted under section 104.6 of the Missouri Standard Specification for Highway Construction. Please review this proposal and let me know if any additional information is required.

Sincerely,

A handwritten signature in black ink, appearing to read 'Doug Fronick', written over a horizontal line.

Doug Fronick
Project Engineer